

METHOD OF PRODUCING POROUS INORGANIC OXIDE**Publication number:** JP2003286011**Publication date:** 2003-10-07**Inventor:** KUDO HIDEHIKO; MUTO AKIHIRO; INOUE SHINICHI**Applicant:** CHIYODA CHEM ENG CONSTRUCT CO;
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C01G23/053; C01G23/08***- European:****Application number:** JP20020094075 20020329**Priority number(s):** JP20020094075 20020329

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Abstract of JP2003286011

PROBLEM TO BE SOLVED: To provide a method of producing a porous inorganic oxide by which the fine pore diameter is precisely controlled to a optional size and a porous inorganic oxide having the controlled fine pore diameter is rapidly and easily produced.

SOLUTION: The porous inorganic oxide is produced by: synthesizing the hydrosol or hydrogel of a metallic hydrous oxide by swinging pH alternately from a precipitation pH region to a dissolution pH region several times; drying the resultant hydrosol or hydrogel of the metallic hydrous oxide; and sintering the hydrosol or hydrogel at a prescribed temperature. The porous inorganic oxide having fine pores controlled to have a desired fine pore diameter is obtained by: controlling the pore diameter to an approximate fine pore diameter smaller than and close to the desired fine pore diameter required for the porous inorganic oxide; and carrying out a high temperature firing operation of firing at a firing temperature set to be higher than a firing temperature required for the porous inorganic oxide corresponding to the difference between the desired fine pore diameter and the approximate fine pore diameter.

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